

**APPLICATION FOR UNITED STATES PATENT**  
**Declaration and Power of Attorney**

This application is a continuation of International Application PCT/GB99/03726 filed 9th November 1999. As a below named inventor, we hereby declare: that my residence, post office address and citizenship are as stated below next to my name; and we believe we am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the invention entitled: **APPARATUS AND METHODS RELATING TO HUMIDIFIED AIR AND TO OLFACTORY MONITORING** the subject of International Application No. **PCT/GB99/03726** filed **9th November 1999** and amended on **none**. We hereby state that we have reviewed and understand the contents of the above identified specification, including (to the best of my ability) the claims, as amended by any amendment referred to above. We acknowledge my duty to disclose information of which we am aware which is material to the examination of this application in accordance with 37 C.F.R 1.56; and that applications for patent or inventor's certificate on this invention or discovery which have been filed by me or my legal representatives or assigns in any country foreign to the United States of America and, if filed within one year before this application, from which priority is claimed under 35 U.S.C. 119/365 are as follows:

United Kingdom Patent Application No. 9824556.6 filed 9th November 1998.


We hereby claim domestic priority benefit under 35 U.S.C. 120/365 of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, we acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

<u>PRIOR PCT APPLICATION</u>	<u>STATUS</u>	<u>PRIORITY CLAIMED</u>
PCT/GB99/03726	Pending	Yes

And we hereby appoint Nixon & Vanderhye whose address is Eighth Floor, 1100 North Glebe Road, Arlington, Virginia 22201-4714, USA (to whom all communications about this application are to be directed), and the below named partners (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and we hereby authorise them to delete names/numbers below of persons no longer with their firm and to act and rely on instructions from and to communicate with BTG INTERNATIONAL LIMITED and its employees and by whom we declare that we have consented after full disclosure to be represented unless/until we instruct Nixon & Vanderhye in writing to the contrary.

T06040" E0282860

Parameter	Value	Unit
Population size	1000	Individuals
Initial frequency	0.5	Proportion
Selection coefficient	0.1	Proportion
Recombination rate	0.01	Proportion
Mutation rate	0.001	Proportion
Drift parameter	1.0	Proportion
Fixation probability	0.5	Proportion
Time to fixation	100	Generations
Standard deviation	0.1	Proportion
Correlation coefficient	0.9	Proportion
Regression slope	0.5	Proportion
Intercept	0.5	Proportion
Residual variance	0.1	Proportion
Model fit	0.95	Proportion
Chi-square statistic	1.0	Proportion
P-value	0.05	Proportion
Confidence interval	0.95	Proportion
Bayesian posterior	0.95	Proportion
Maximum likelihood	0.95	Proportion
Information criterion	0.95	Proportion
Model selection	0.95	Proportion
Model comparison	0.95	Proportion
Model evaluation	0.95	Proportion
Model validation	0.95	Proportion
Model testing	0.95	Proportion
Model analysis	0.95	Proportion
Model interpretation	0.95	Proportion
Model conclusion	0.95	Proportion
Model summary	0.95	Proportion
Model report	0.95	Proportion
Model presentation	0.95	Proportion
Model communication	0.95	Proportion
Model documentation	0.95	Proportion
Model archiving	0.95	Proportion
Model backup	0.95	Proportion
Model recovery	0.95	Proportion
Model restoration	0.95	Proportion
Model migration	0.95	Proportion
Model replication	0.95	Proportion
Model distribution	0.95	Proportion
Model sharing	0.95	Proportion
Model collaboration	0.95	Proportion
Model partnership	0.95	Proportion
Model alliance	0.95	Proportion
Model coalition	0.95	Proportion
Model confederation	0.95	Proportion
Model federation	0.95	Proportion
Model confederacy	0.95	Proportion
Model league	0.95	Proportion
Model pact	0.95	Proportion
Model treaty	0.95	Proportion
Model agreement	0.95	Proportion
Model understanding	0.95	Proportion
Model cooperation	0.95	Proportion
Model assistance	0.95	Proportion
Model support	0.95	Proportion
Model aid	0.95	Proportion
Model help	0.95	Proportion
Model service	0.95	Proportion
Model benefit	0.95	Proportion
Model advantage	0.95	Proportion
Model gain	0.95	Proportion
Model profit	0.95	Proportion
Model return	0.95	Proportion
Model yield	0.95	Proportion
Model output	0.95	Proportion
Model production	0.95	Proportion
Model creation	0.95	Proportion
Model development	0.95	Proportion
Model growth	0.95	Proportion
Model expansion	0.95	Proportion
Model increase	0.95	Proportion
Model rise	0.95	Proportion
Model ascent	0.95	Proportion
Model climb	0.95	Proportion
Model ascent	0.95	Proportion
Model rise	0.95	Proportion
Model increase	0.95	Proportion
Model expansion	0.95	Proportion
Model growth	0.95	Proportion
Model development	0.95	Proportion
Model creation	0.95	Proportion
Model production	0.95	Proportion
Model output	0.95	Proportion
Model yield	0.95	Proportion
Model return	0.95	Proportion
Model profit	0.95	Proportion
Model gain	0.95	Proportion
Model advantage	0.95	Proportion
Model benefit	0.95	Proportion
Model service	0.95	Proportion
Model help	0.95	Proportion
Model aid	0.95	Proportion
Model support	0.95	Proportion
Model cooperation	0.95	Proportion
Model understanding	0.95	Proportion
Model agreement	0.95	Proportion
Model treaty	0.95	Proportion
Model pact	0.95	Proportion
Model league	0.95	Proportion
Model confederacy	0.95	Proportion
Model federation	0.95	Proportion
Model confederation	0.95	Proportion
Model alliance	0.95	Proportion
Model partnership	0.95	Proportion
Model collaboration	0.95	Proportion
Model sharing	0.95	Proportion
Model distribution	0.95	Proportion
Model replication	0.95	Proportion
Model migration	0.95	Proportion
Model restoration	0.95	Proportion
Model recovery	0.95	Proportion
Model backup	0.95	Proportion
Model archiving	0.95	Proportion
Model documentation	0.95	Proportion
Model communication	0.95	Proportion
Model presentation	0.95	Proportion
Model report	0.95	Proportion
Model summary	0.95	Proportion
Model conclusion	0.95	Proportion
Model interpretation	0.95	Proportion
Model analysis	0.95	Proportion
Model testing	0.95	

  
Date: 2 April 01  
Colin John Houghton  
a British subject  
Residence address: Wood Farm, Green End, Maulden, Bedfordshire, MK45 2AB, GB

**APPLICATION FOR UNITED STATES PATENT**  
**Declaration and Power of Attorney**

This application is a continuation of International Application PCT/GB99/03726 filed 9th November 1999. As a below named inventor, we hereby declare: that my residence, post office address and citizenship are as stated below next to my name; and we believe we am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the invention entitled: **APPARATUS AND METHODS RELATING TO HUMIDIFIED AIR AND TO OLFACTORY MONITORING** the subject of International Application No. **PCT/GB99/03726** filed **9th November 1999** and amended on **none**. We hereby state that we have reviewed and understand the contents of the above identified specification, including (to the best of my ability) the claims, as amended by any amendment referred to above. We acknowledge my duty to disclose information of which we am aware which is material to the examination of this application in accordance with 37 C.F.R 1.56; and that applications for patent or inventor's certificate on this invention or discovery which have been filed by me or my legal representatives or assigns in any country foreign to the United States of America and, if filed within one year before this application, from which priority is claimed under 35 U.S.C. 119/365 are as follows:

United Kingdom Patent Application No. 9824556.6 filed 9th November 1998.

We hereby claim domestic priority benefit under 35 U.S.C. 120/365 of the indicated United States applications listed below and PCT international applications listed above or below and, if this is a continuation-in-part (CIP) application, insofar as the subject matter disclosed and claimed in this application is in addition to that disclosed in such prior applications, we acknowledge the duty to disclose all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of each such prior application and the national or PCT international filing date of this application:

<u>PRIOR PCT APPLICATION</u>	<u>STATUS</u>	<u>PRIORITY CLAIMED</u>
PCT/GB99/03726	Pending	Yes

And we hereby appoint Nixon & Vanderhye whose address is Eighth Floor, 1100 North Glebe Road, Arlington, Virginia 22201-4714, USA (to whom all communications about this application are to be directed), and the below named partners (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent, and we hereby authorise them to delete names/numbers below of persons no longer with their firm and to act and rely on instructions from and to communicate with BTG INTERNATIONAL LIMITED and its employees and by whom we declare that we have consented after full disclosure to be represented unless/until we instruct Nixon & Vanderhye in writing to the contrary.

Leonard C. Mitchard, 29,009, Arthur R. Crawford, 25,327, Larry S. Nixon, 25,640, Robert A. Vanderhye, 27,076, James T. Hosmer, 30,148, Robert W. Faris, 31,352, Michael J. Keenan, 32,106, Mark E. Nusbaum, 32,348, Richard G. Besha, 22,770, Bryan H. Davidson, 30,251, Stanley C. Spooner, 27,393, Duane M. Byers, 33,363, Paul J. Henon, 33,626, Jeffry H. Nelson, 30,481, John R. Lastova, 33,149, H. Warren Burnam Jr, 29,366, Thomas E. Byrne, 32,205, Mary J. Wilson, 32,955, J. Scott Davidson, 33,489

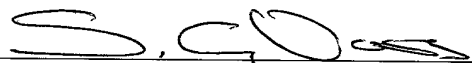
We hereby declare further that all statements made herein of own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

\_\_\_\_\_  
Date:

Toby Trevor Fury Mottram

a British subject

Residence address: 65B Upper King Street, Royston, Hertfordshire, SG8 9AZ, GB



\_\_\_\_\_  
Date: 3rd MARCH 2001

Steven George Vass

a British subject

Residence address: 25 Hawthorn Close, Ampthill, Bedfordshire, MK45 2TN, GB

\_\_\_\_\_  
Date:

Colin John Houghton

a British subject

Residence address: Wood Farm, Green End, Maulden, Bedfordshire, MK45 2AB, GB